

# Contents of Volume 10

## Contents of Volume 10, Nr. 1

### State-of-the-Art

- 1 DFMS: A New Control Structure for FMS, *H. Bakker*
- 11 Dynamic Model Based Optimization Control for Reheating Furnaces, *Yong-yao Yang and Yong-zai Lu*
- 21 Formalization and Computer Representation of Organizing Problems for Purposes of Computer-Aided Problem Resolution, *A. Kurzydłowska and S. Piasecki*

### Forum on Fuzziness

- 35 Use of Fuzzy Logic in Robotics, *B.A.M. Wakileh and K.F. Gill*

### Applications

- 47 Design Specification of Parts Dimensional Tolerance for Robotic Assembly, *H.A. ElMaraghy, W.H. ElMaraghy and L. Knoll*
- 61 Monitoring, Diagnosis and Operator Leading Systems for Flexible Automated Manufacturing, *H. Wiele, G. Liermann and H. Raschke*
- 69 Problems with a Node of Computer Networks, *V.P. Masnikosa*

### News From IFIP TC5

- 79 Third TC5 Working Group Chairmen Meeting
- 79 Evaluation of the IFIP WG5.3 Conference

### Events

- 81 Call for Papers
- 88 Calendar

## Contents of Volume 10, Nr. 2

### State-of-the-Art

- 95 Computational Tasks in Robotics and Factory Automation  
*F.P. Biemans and C.A. Vissers*
- 113 B-Splines Joint Trajectory Planning  
*K. Wang*

### Applications

- 123 The Application of a Microcomputer to The Control of an Injection Moulding Machine  
*T.P. Leung, H.K. Fung and C. McCall*
- 137 Investigation and Design of Parcel Sorting Systems in Postal Centres by Simulation  
*M. Vrgoč and V. Čerić*

**Short Notes**

147  $\mu$ -Processor Based Capacitor Testing and Sorting  
*R. Krishnamoorthy, A. Mathialagan and D. Vidya*

**News From IFIP TC5**

155 Workshop on Knowledge Based Production Management Systems

**Events**

156 Call for Papers  
159 Calendar

**Contents of Volume 10, Nr. 3****PROLAMAT '88**

165 A Decision Support Algorithm for Flexible Manufacturing Systems Control  
*F. Čapkovič*  
171 Software Development Approach in FMS  
*D. Dimitrov and N. Todorov*  
177 A General Method for Constructing Automated Procedures for Testing Quickest Detection of a Change in Quality Control  
*N.A. Nechval*

**Applications**

185 An Alternative Approach to the Development of Industrial Systems  
*R. Overwater and K. J. Vegter*  
197 Hi-Tech for Construction Projects  
*M.A. Muspratt*

**News from IFIP TC5**

209 The 27th Meeting of IFIP TC5  
210 IFIP TC5 Events  
212 List of Members

**Events**

217 Calendar

**Contents of Volume 10, Nr. 4****Applications**

221 Microcomputer-aided Material Management in a Furniture Factory  
*A.Y.C. Nee and S.L. Long*  
231 An Optimizing Software and Its Application to Ethanal Column Control  
*Y. Changbin, Z. Xuemei and W. Jicheng*  
241 Simulate a Digital Industrial Process  
*C. Constantinescu*  
247 A Semantic Analysis of ORGPLAN  
*A. Kurzydłowska and S. Piasecki*  
261 Kinematic Analysis via Virtual Links  
*A. Manna, F. Dehlawi and M. Akyurt.*

**Short Note**

267 Generalized Coons' Patches

*H. Hagen*

271 Errata

**News from IFIP TC5**

273 List of Scheduled IFIP TC5 Events

275 Book Review

**Events**

277 Call for Papers

279 Calendar

**Indexes to Volume 10**

283 Subject Index to Volume 10

285 Author Index to Volume 10

287 Contents of Volume 10

